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**MIAMI-DADE COUNTY, FLORIDA
NOTICE TO PROFESSIONAL CONSULTANTS (NTPC)
MIAMI-DADE COUNTY Aviation Department (MDAD)
CRANE PROGRAM ENGINEERING AND CONSULTING SERVICES
ISD PROJECT NO. E16-SEA-01**

The County Mayor, Miami-Dade County (County), pursuant to Section 287.055, Florida Statutes, 2-8.1 and 2-10.4 of the Miami-Dade County Code and Administrative Order 3-39, announces that Miami-Dade County Aviation Department (MDAD) is seeking Crane Program Engineering and Consulting Services.

Prime and sub-consultants selected for PSAs under ISD Project No. E11-SEA-03, Program Management Consultant Services, and ISD Project No. E14-SEA-01R, Management Financial Consulting and Bond Engineering Services, will not be considered for award of a PSA under ISD Project No. E16-SEA-01.

SCOPE OF SERVICES

Consultant shall provide non-exclusive professional engineering services, for PortMiami's Gantry Cranes, rail and structural support systems. The scope of services includes specific Gantry Crane Program Engineering and Consulting Services, and Crane Procurement.

1. Crane Procurement: The Consultant shall provide oversight and technical assistance to purchase, design, fabricate, erect, install, test, start-up, commission, ship, deliver, re-commission, test and certify gantry cranes and cargo handling equipment such as spreaders. Services may include, but are not limited to: electrical controls drive system design; safety and control interlocks design; vessel profiling operations; hoisting system designs; hoisting hydraulic system design; gantry crane design oversight and reviews; specific metals and application engineering; equipment elevator design; fabrication engineering and Quality Assurance/Quality Control (QA/QC); on-site engineer at manufacturer's site during fabrication, erection, installation, commissioning, testing and shipping; specialty engineer trips to manufacturer's site during design, fabrication, erection, installation, commissioning and testing, as well as prior to shipment; review of all of manufacturer's drawings, calculations, submittals, reports, testing results, and manuals; trips to PortMiami for design reviews, project management, delivery, crane start-up, re-commissioning, testing, certification and acceptance; review and adjustment of manufacturer's spare parts list as required; and review of operations and management of on-site third party inspection services as appropriate.

2. Specific Gantry Crane Program Engineering and Consulting Services: Services include, but are not limited to: general and specific gantry crane engineering; gantry crane infrastructure engineering of the crane systems, rail support systems (including, but not limited to the rail, which supports the cranes); with analysis and studies of PortMiami's gantry cranes, and cargo handling equipment to include, but not be limited to spreaders. This work covers gantry crane program assistance; project assistance and management; equipment design; electrical controls drive system design; safety and control interlocks design; vessel profiling operations; hoisting system designs; hoisting hydraulic system design; gantry crane design oversight and reviews; specific metals and application engineering; equipment elevator design; fabrication engineering and QA/QC; shipping, loading and unloading, testing, commissioning, gantry crane, repair and maintenance procedures; inspections; assessments; disaster and damage recovery reports; claims assistance; calculations; testing; production analysis; preparation of reports and other specialty crane engineering services.

The Consultant shall provide all necessary professional services; site investigations; studies; modeling; engineering designs; steel structural engineering; mechanical and electrical engineering; cost estimates; value engineering coordination; manufacturing and fabrication documents; bidding assistance; site visits; inspections; fabrication administration including QA/QC inspection services and review of fabrication shop

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drawings, submittals, proposed substitutions, pay requests and change orders; commissioning; OSHA certification; claims assistance coordination; and any supportive ancillary tasks to the primary scope of services to successfully complete all phases of the project.

In addition, all work shall be conducted to meet or exceed professional standards; comply with PortMiami Security requirements; and PortMiami Design Guidelines.

PROJECT COST

The estimated total contract amount is two million dollars (\$2,000,000). One (1) consultant/team of firms will be retained under a non-exclusive Professional Services Agreement (PSA) for an effective term of six (6) years, or until the money is depleted, whichever comes first, excluding warranty administration period.

EXPERIENCE AND QUALIFICATIONS

Interested Professional Engineering Firms are preferred to have five (5) years' experience of similar gantry crane engineering work as described in the project description. This expertise must be met by qualified individual(s) of the prime consultant. The Competitive Selection Committee may negatively evaluate proposals from firms they determine have failed to meet the above experience and qualification(s).

The Prime and/or sub-consultants performing Technical Certifications 12.00 – General Mechanical Engineering, 13.00 – General Electrical Engineering, 16.00 – General Civil Engineering and 17.00 – Engineering Construction Management, must have a minimum of five (5) years working experience on crane manufacturing; crane installation; commissioning; crane lighting systems; crane pits; electrical and sump pump systems.

A/E TECHNICAL CERTIFICATION REQUIREMENTS FOR THE A/E DESIGN TEAM

PRIME:

- 5.01 Port and Waterway Systems – Engineering Design (PRIME)**
- 5.05 Port and Waterway Systems – Cargo Terminal Design (PRIME)**
- 5.06 Port and Waterway Systems – Cargo Terminal Equipment Design (PRIME)**

PRIME OR SUB-CONSULTANT:

- 12.00 General Mechanical Engineering
- 13.00 General Electrical Engineering
- 16.00 General Civil Engineering
- 17.00 Engineering Construction Management
- 19.05 Value Analysis and Life Cycle Costing – Port and Waterway Systems

CONTRACT MEASURES

The Miami-Dade County Small Business Enterprise (SBE) goals are as follows:

- a) 2.0% – SBE-A/E Goal

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